

IN THE CLAIMS:

Please cancel claims 1 through 3. Please enter new claims 4 through 13.

1. (Canceled)
2. (Canceled)
3. (Canceled)
4. (New) A process for forming a hydrogen storage material comprising:
providing a sodium aluminum hydride;
mixing a 1%/wt of titanium to said sodium aluminum hydride; and,
supplying a combination of heat and pressure sufficient to melt said sodium aluminum hydride and titanium mixture, thereby providing a fused hydrogen storage material having a hydrogen release point at normal atmospheres of between about 50°C to about 90°C.
5. (New) A process of forming a hydrogen storage material comprising:
supplying at least one complex hydride;
mixing with said complex hydride a dopant selected from the group consisting of metals comprising titanium, zirconium, vanadium, iron, cobalt, nickel, lanthanum, and mixtures thereof;
subjecting said mixture of complex hydride and said dopant under pressure in the presence of hydrogen gas;
raising the temperature of said mixture of said complex hydride and said dopant and said hydrogen gas to a melting point of said complex hydride; and,
maintaining said heat and pressure for a time sufficient to form a fused product, wherein said fused product has a reversible ability to store and release hydrogen.

6. (New) The process according to claim 5 wherein said at least one complex hydride is sodium aluminum hydride.
7. (New) The process according to claim 5 wherein said at least one complexhydride comprises lithium hydride.
8. (New) The process according to claim 5 wherein said at least one complexhydride comprises sodium hydride.
9. (New) The process according to claim 5 wherein said at least one complex hydride comprises a mixture of sodium aluminum hydride, lithium hydride, and sodium hydride.
10. (New) The process according to claim 9 wherein said sodium aluminum hydride, said lithium hydride, and said sodium hydride are present in substantially about equi-molar amounts.
11. (New) The product of the process according to claim 4.
12. (New) The product of the process according to claim 5.
13. The product of the process according to claim 9.